



Mini Display

PRODUCT USER GUIDE

The A+T Mini Data Display (MDD) is engineered to the highest specification with bonded LCD, anti glare toughened glass. The highest attention has been paid to water integrity under the harshest of conditions.

The displays uses a very efficient proprietary serial data protocol, and is driven by an A+T MFD which may have up to 4 MDD's connected.

Specifications:

Input voltage	10-40 Vdc, internal self resetting fuse
Power consumption	0.1 to 0.6 W
Weight incl bezel and cable	0.21 kg
Environmental	IP68, tested at 1m submersion for 24hr
Operating temperature	-10 to +70 deg C
Backlighting	Red

Warranty:

The A+T Mini is warranted against manufacturing defects for five years from date of shipping from factory on a return to factory basis. Warranty is void if opened except by A+T. An integral tamper sensor is fitted.

The warranty specifically excludes physical damage, lightning strike to the vessel, overvoltage on supply or signal lines and use outside the normal operating environment of a yacht.

Trademarks:

A+T is a registered trademark of A+T Instruments Ltd. B&G, H2000, H3000, WTP, WPT2 & WPT3 are product names or trademarks of Navico UK Ltd whose use here is acknowledged.

Conformity.

This display complies with the CE EMC directive 2004/108/EC and Level 2 of the Radio communications (Electromagnetic Compatibility) standard 2008





Functionality

- 20mm high, excellent contrast data digits
- The MDD displays all data available from the instrument processor and is controlled by an A+T MFD
- 4 data pages are available on one MDD. Any data channel may be selected for each page and toggled through with a momentary close contact remote push button
- Up to 4 MDD's can be connected and driven by one MFD

Appendices:-

- A. Display wiring
- B. MDD setup and use
- C. Mounting instructions and cut-out template

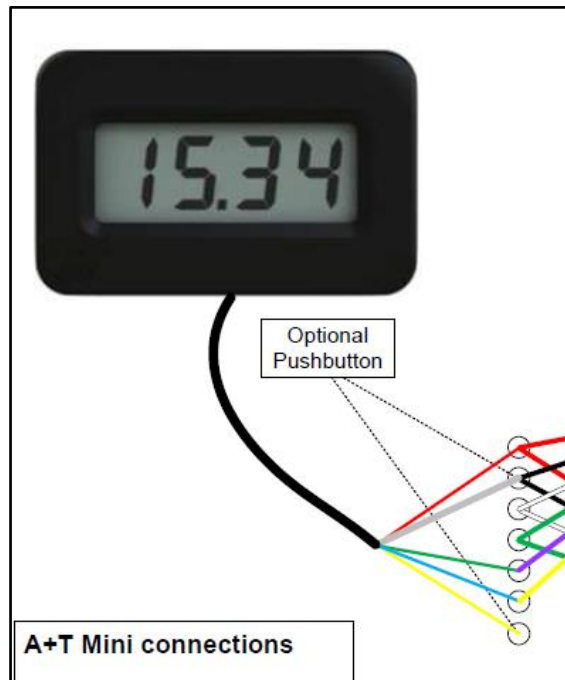
APPENDIX A

MDD's are supplied with a 3 metre bare ended cable. This can be shortened without affecting the unit or warranty. Custom cable lengths are available, as are IP68 rated in-line connectors. Contact A+T to discuss your requirements.

Fastnet:

The colour codes in the cable are:-

MDD cable colour	MDD Function	Fastnet & A+T MFD cable
Bare	0V	Black
Red	+V	Red
Green	Data in A	Violet
Blue	Data in B	Yellow
Yellow	Channel select (to 0V)	
		White
		Green
		Brown
		Blue
		Bare





APPENDIX B

Set up MDD on MFD

Your MFD must be firmware version 2.07 or later. On your MFD:

Menu
↳ This Display
↳ Statistics

To update firmware see the MFD user guide.

1. Set your MFD to MDD mode

Menu
↳ This Display
↳ NMEA Mode Select

- Scroll to 'Mini Display'
- Press MENU ↵
- Press ◀

2. Set the data for the MDD

If more than one MDD is connected to the MFD, each MDD's page data selections will be identical. However each MDD's pages may be selected independently by pushbutton or touching the MDD yellow wire to 0V (a pushbutton is not required).

Menu
↳ This Display
↳ Mini Display
↳ Display # [refers to the page number]

- Press MENU ↵ to highlight
- Press ▶
- Scroll to the channel you wish to display
- Press MENU ↵
- Press ▲ or ▼ to move to another Display # to set up, or ◀ to exit the menu

APPENDIX C

Mounting the Display

DO NOT USE Acetone or any alcohol based solvent agents for cleaning. These may damage the plastic materials on the display.

The MDD does not require fastenings or a gasket.

Recommendations:

- a) A 1mm clearance between the display and the bulkhead cutout
- b) Apply a bead of propriety **NON-ADHESIVE** sealant and press the MDD in place. Secure the MDD in place with a low-adhesive tape or other practical method, and remove once the sealant has cured.

